

NICRA ACTION PLAN, 2022-23

1. A. Basic information

S.No.	Item	Detail
1.1	Zone	V
1.2	Name of KVK (district)	Ganjam-1, Ganjam
1.3	Name of Tehsil	Jagannath Prasad
1.4	Name of Village	Chopara, Lepa, Nada, Chikili
1.5	Climatic vulnerability	Drought, Moisture stress, Cyclone

B. Details of NICRA village

Item	Existing NICRA village	Additional villages selected in the programme		
		Village 1 and year of selection	Village 2 and year of selection	Village 3 and year of selection
Village name	Chopara /2011	Lepa /2017	Chikili /2017	Nada/2018
Name of mandal/Block	Jagannath Prasad	Jagannath Prasad	Jagannath Prasad	Jagannath Prasad
Total area (ha)	150	70	230	210
No. of house holds	315	125	370	435
Extent of rainfed areas(ha)	45	30	85	70

C. Other NICRA villages with predominant farming system typologies

Sl.No .	Farming System Typologies	Village 1(Lepa)			Village 2 (Chikili)			Village 3(Nada)		
		Area (ha)	No. of farmers (approx.)	% coverage (area in the village)	Area (ha)	No. of farmers (approx.)	% coverage (area in the village)	Area (ha)	No. of farmers (approx.)	% coverag e (area in the village)
1	Rainfed without animal	18	48	26	60	105	26	47	106	22
2	Rainfed with animal ,Crop-1	09	26	13	17	28	08	14	40	07
3	Rainfed with animal,Crop-2	03	10	04	8	14	03	9	26	04
4	Irrigated without animal	12	21	17	81	162	35	72	171	34
5	Irrigated with animal	07	12	10	22	38	10	32	75	15
7	Other predominant system	17	08	25	34	23	15	24	17	11

2. Details of Farming system Typologies interventions

Sl. No	Farming System Typologies	Climate constraints	Interventions/technologies	No. of farmers/ha	Village/ha	Unit cost (Rs./ha.)	Total amount (Rs.)
1	Rainfed upland without animal (Rice-Fallow)	Dry spell, Terminal moisture stress	Short duration drought tolerant Rice var. Sahabthagidhan , Direct sowing of Rice,Raising of farm bund ht. to 10 inch, sowing of Pigeonpea in farm bund	10/04	Chopara-1.0 Chikili-1.0 Lepa- 1.0 Nada-1.0	5000	20000
2	Rainfed upland without animal (Maize-Fallow)	Dry spell, Low water use efficiency , Less profit	Ridge & Furrow method of sowing, intercropping with Cowpea Short duration Blackgram(Prasad) sown after Maize	12/04	Chopara-1.0 Chikili-2.0 Lepa- 1.0	6000	24000
3	Rainfed upland with animal (Rice-Fallow, Dairy)	Dry spell, Terminal moisture stress, fodder shortage	Short duration drought tolerant Rice var. Sahabthagidhan , Direct sowing of Rice,Raising of farm bund ht. to 10 inch, sowing of Pigeonpea in farm bund, vaccination, mineral mixture, fodder	12/04	Chopara-1.0 Chikili-1.0 Lepa- 1.0 Nada-1.0	5000	20000
4	Rainfed upland with animal (Rice-Fallow, Goatery)	Dry spell, Terminal moisture stress	Short duration drought tolerant Rice var. Sahabthagidhan , Direct sowing of Rice, Raising of farm bund ht. to 10inch, sowing of Pigeonpea in farm bund,vaccination, deworming	05/02	Chopara-0.5 0.5 Lepa- 0.5 Nada-0.5	5000	10000

5	Rainfed upland with animal (Maize-Fallow, Dairy)	Dry spell, Low water use efficiency, Less profit from Maize, low milk yield, fodder shortage	Ridge & Furrow method of sowing, intercropping with Cowpea Short duration Blackgram(Prasad) sown after Maize, vaccination, mineral mixture, fodder cultivation	08/02	Chopara-0.5 Chikili-1.0 Lepa- 0.5	6000	12000
6	Rainfed medium land-without animal (Rice-Greengram)	Dry spell, Terminal moisture stress, Acid soil, YMV incidence in Greengram	Drought tolerant Rice var. SwarnaShreya, Raising of farm bund ht. to 10 inch, Transplanting 2weeks advance, Green manuring, Critical irrigation from Checkdam, Farm pond, YMV tolerant Greengram var.- IPM 02-14	10/4	Chopara-1.0 Chikili-1.0 Lepa- 1.0 Nada-1.0	6000	24000
7	Rainfed medium land-with animal (Rice-Greengram, Dairy)	Dry spell, Terminal moisture stress, YMV more in March month	Medium duration drought tolerant Rice var. MTU-1156, Leaf colour Chart, Raising of farm bund ht. to 10 inch, Critical irrigation from Checkdam, Farm pond, YMV tolerant Greengram var.- IPM 02-14	10/4	Chopara-1.0 Chikili-1.0 Lepa- 1.0 Nada-1.0	6000	24000
8	Rainfed low land-- without animal (Rice - Blackgram)	Water logging in intense rainfall situation, pest infestation, YMV in local Blackgram var.	Flood tolerant Rice var.- Swarna sub-1, eco friendly pest management, Leaf colour Chart, Short duration HYV Blackgram-Prasad	18/06	Chopara-2.0 Chikili-2.0 Nada-2.0	6000	36000
9	Rainfed low land-with animal (Rice-Blackgram, Dairy)	Water logging in intense rainfall situation, pest infestation, YMV in local Blackgram var. low milk yield	Flood tolerant Rice var.- Swarna sub-1, eco friendly pest management, Leaf colour Chart, HYV Blackgram-Prasad vaccination, mineral	12/04	Chopara-2.0 Chikili-2.0	6000	24000

			mixture feeding				
10	Irrigated up land without animal (Rice-Tomato)	Local var. with high pest infestation, wilting of plants, weed infestation, defunct well	HYV Rice var. MTU-1224 with eco friendly IPM management, Wilt tolerant Tomato var.- Arka rakshyak, poly mulching	12/04	Chopara-1.0 Chikili-1.0 Lepa- 1.0 Nada-1.0	6000	24000
11	Irrigated up land without animal (Brinjal-Cauliflower)	wilting of Seedlings& plants, Weed infestation,pest infestation	Low cost poly house, Wilt tolerant Brinjal var.- Swarna Shyamali, poly mulching, IPM in Cauliflower	12/04	Chopara-2.0 Chikili-1.0 Lepa- 1.0	7000	28000
12	Irrigated up land with animal (Rice-Tomato,Dairy)	Local var. with high pest infestation, wilting of plants, weed infestation Low milk yield	HYV Rice var. MTU-1224 with eco friendly IPM management, Chart,vaccination, mineral mixture	15/05	Chopara-1.5 Chikili-1.5 Lepa- 1.0 Nada-1.0	7000	35000
13	Irrigated medium land without animal (Rice-Greengram-Sesame)	Short term submergence in canal side area, acid soil,YMV, low yield of local Sesame var.	Flood tolerant Rice var.- Swarna sub-1, eco friendly pest management, YMV tolerant Greengram var. IPM 02-14, Short duration HYV Sesame var.- Suprava	15/05	Chopara-3.0 Chikili-1.0 Lepa- 1.0	7000	35000
14	Irrigated medium land without animal (Rice-Brinjal)	Short term submergence in canal side area, Acid soil, wilting of plants, weed infestation	Flood tolerant Rice var.- Swarna sub-1, Green manuring, Wilt tolerant Brinjal var.- Swarna Shyamali,poly mulching	20/06	Chopara-2.0 Chikili-2.0 Lepa- 1.0 Nada-1.0	6500	39000
15	Irrigated medium land without animal (Rice-Maize)	Short term submergence in canal side area,acid	Flood tolerant Rice var.- Swarna sub-1, Green manuring, Crop	10/03	Chopara-0.5 Chikili-2.0	9000	27000

		soil, less profit from Maize	diversification to Sweet corn		Lepa- 0.5		
16	Irrigated medium land with animal (Rice-Greengram-Sesame, Dairy)	Short term submergence in canal side area, acid soil,YMV, low yield of local Sesame var. ,low milk yield		07/02	Chopara-0.5 Chikili-1.5	8000	16000
17	Irrigated medium land with animal (Rice-Brinjal, Dairy)	Short term submergence in canal side area, Acid soil, wilting of plants, weed infestation ,low milk yield		07/02	Chopara-0.5 Chikili-0.5 Lepa- 0.5 Nada-0.5	6500	13000
18	Irrigated medium land with animal (Rice-Maize, Dairy)	Short term submergence in canal side area, less profit from Maize ,low milk yield		08/02	Chopara-0.5 Chikili-1.0 Lepa- 0.5 Nada-0.5	10000	20000
19	Integrated farming system(Rice, Greengram, Pisciculture, Dairy, Vegetable,vermicomposting)	Local var. with high pest infestation,YMV in Greengram,low fish & milk yield,wilting of vegetales	HYV of Rice Swarna sub-1, YMV tolerant Greengram var.- IPM 02-14, yearling with floating fish feed, vaccination, Mineral mixture feeding, fodder cultivation	04/7	Chopara-3.0 Chikili-1.0 Lepa- 2.0 Nada-1.0	4000	28000
20	Integrated farming system(Rice, Maize, Vegetable, Poultry, Dairy,vermicomposting)	Local var. with high pest infestation, low water use efficiency, less profit of Maize, wilting of vegetables, high	HYV of Rice Swarna sub-1,Ridge- furrow system with high value crop Sweetcorn, wilt tolerant var., Kadaknath chicks, vaccination, Mineral mixture feeding, fodder cultivation	03/04	Chopara-1.0 Chikili-3.0	4000	16000

		chick mortality, low milk yield					
21	Integrated farming system(Rice, greengram, Sesame, Vegetable, Honey bee, Poultry, Dairy)	Local var. with high pest infestation, YMV in Greengram, wilting of vegetables, high chick mortality, low milk yield	HYV var.- Swarna sub-1, IPM 02-14, Suprava, wilt tolerant var., Kadaknath chicks, vaccination, Mineral mixture feeding, fodder cultivation	03/04	Chikili-2.0 Lepa- 2.0	4000	16000

3. Other intervention

A) *Repair / Renovation of existing water harvesting structures & drainage channels etc.*

<i>S.No.</i>	<i>Intervention</i>	<i>Dimensions</i>	<i>No. of beneficiaries</i>	<i>Amount (Rs)</i>
	Check dam repairing	50m * 20 m* 3m & 30m * 10m* 2m	84	30000
	Desilting of farm pond	80m * 35 m	18	20000
	Renovation of well		10	20000
			112	70000

B)Improved housing /shelter for protection of livestock against extreme weather

Type of shelter improvement*	Unit cost of demo (Rs)	No. of demos	Amount (Rs)
Concrete flooring with bamboo & straw thatching for cattle	3000	06	18000
Low cost poultry house with Cement pillar & wire mesh	6000	02	12000
Low cost Goat house with raised bamboo structure	8000	02	16000
Total		10	46000

C) Capacity Building programme

Theme	Title of training course	Proposed month	No. of participants	Amount (Rs.)
IPM	Management of Pest & diseases in paddy	August	25	4000
IPM	IPM in Greengram	Jan.	25	4000
Income generation	Goat rearing	Nov.	25	4000
Resource conservation	Vermicomposting, use of Bio-Fertilizer in diff. crop	Sept.	25	4000
Feed management	Application of Floating feed in Pisciculture	Oct.	25	4000
Quality planting material	Nursery raising , Grafting techniques of veg. & fruits	Oct.	25	4000
ICT in Agriculture	Role of ICT in changing climate scenario	Dec.	25	4000
Total	07		175	28000

D) Field Days

Theme	Title of Field day	Proposed month	No. of participants	Amount
Field day	Rainfed up land farming system	Oct.	50	4000
Field day	Rainfed medium land farming system	Nov.	50	4000
Field day	Irrigated medium land farming system	Nov.	50	4000
	Total		150	12000

E) Exposure visit

Place of visit	Purpose of visit	Proposed month	No. of participants	Cost to project (Rs.)
CHES, CTCRI, IIWM,NRRI	Awareness on improved technology	June & December	40	40000
Total			40	40000

F) Media Products to be developed (brochure/bulletin)

Item description	No. of copies	Amount (Rs.)
Bulletin on Impact of NICRA activities	500	10000
Total	500	10000

4 . Contractual Manpower (SRFs)

Category	Rate/month (Rs.)	No. of positions	No. of months	Amount (Rs.)
SRF	32550	1	12	390600
Total		1	12	390600

5. Non-recurring contingencies – Equipment

Procurement of farm machinery/ implements for Custom Hiring Centre (CHC)

S.No.	Item	Unit cost* (Rs)	No. of units	Amount (Rs)
1.	Power weeder	50000	02	100000
	Total NRC		02	100000

Summary of budget Estimates for 2022-23(Tentative)

S.N.	Item	Amount (Rs)
1.	Farming system typologies demonstration	491000
2.	Repair/ Renovation of existing water harvesting structures & drainage channels etc.	70000
3.	Improved structure of live stock	46000
4.	Capacity building programme	28000
5.	Field day	12000
6.	Exposure visit	40000
7.	Media products to be developed	10000
8.	Contractual manpower (SRFs)	390600
9.	Nonrecurring Item	100000
10.	TA	30000
11.	POL & other Misc. expenses	20000
	Grand total	1237600

(Rupees Twelve lakhs thirty seven thousand six hundred only)

**Sd/-
Senior Scientist & Head
KVK, Ganjam-I, Odisha**